GAU 2763

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Intellectual Property Administration
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PATENT APPLICATION

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IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

Batch No.:

Inventor(s): Evan R. Kirshenbaum

Serial No.: 09/544751 Examiner:

Filing Date: Apr 07, 2000 Group Art Unit: 2763

Title: Modeling Decision-Maker Preferences Using Evolution Based On Sampled Preferences

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#2

OFFICIAL DRAFTSPERSON
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DRAWING TRANSMITTAL LETTER

Sir:

Enclosed herewith please find:

( ) _____ sheets of redlined drawing(s) which indicate proposed changes to the drawing(s). Upon approval of these proposed changes, formal drawing(s) will be submitted.

( ) _____ sheets of corrected formal drawing(s), as required by the Notice of Patent Drawings Objection (PTO-948) which accompanied the Office Action dated_____ .

( ) _____ sheets of corrected formal drawing(s), as required by the Notice of Patent Drawings Objection (PTO-948) and approved in the Notice of Allowability dated_____.

(X) 6 sheets of formal drawing(s). Please substitute these formal drawing(s) for the informal drawing(s) originally filed.

( ) _____

Examiner's approval of the entry of these drawings is respectfully requested. No new matter has been added.

Respectfully submitted,

Evan R. Kirshenbaum

By _____

Thomas X Li

Attorney/Agent for Applicant(s)
Reg. No. **37,079**

Date: **8/25/00**

Telephone No.: **(650) 857-5972**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231.

Date of Deposit: **8/25/00**

Typed Name: **Tiffany Turner**

Signature: _____

Rev 12/99 (Dwgtrans)

FIG. 1

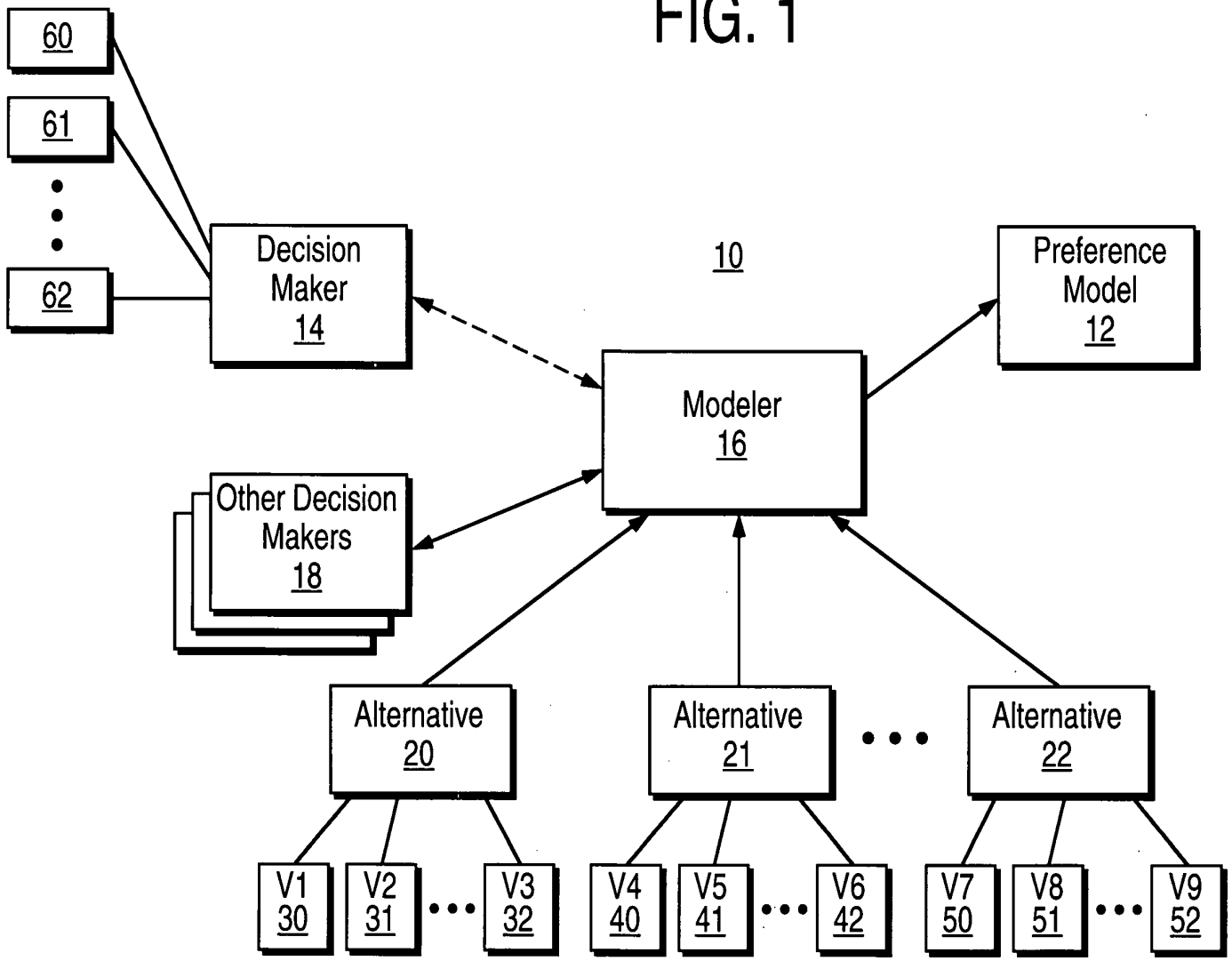

60
61
62
Decision Maker 14
10
Preference Model 12
Modeler 16
Other Decision Makers 18
Alternative 20
Alternative 21
Alternative 22
V1 30
V2 31
V3 32
V4 40
V5 41
V6 42
V7 50
V8 51
V9 52

FIG. 2

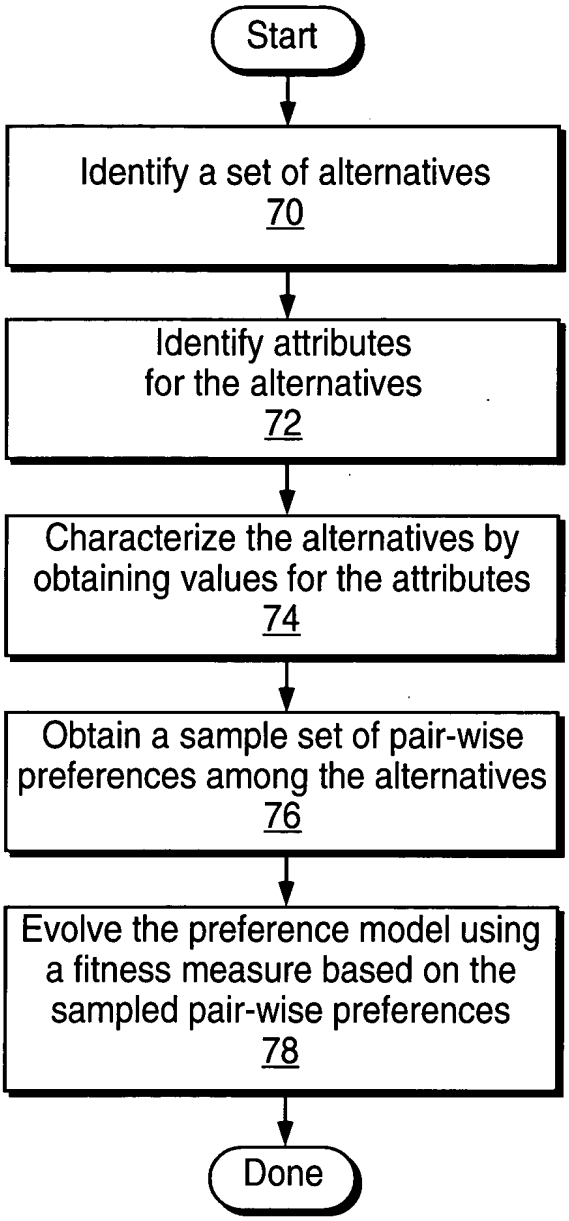

Start
Identify a set of alternatives
70
Identify attributes
for the alternatives
72
Characterize the alternatives by
obtaining values for the attributes
74
Obtain a sample set of pair-wise
preferences among the alternatives
76
Evolve the preference model using
a fitness measure based on the
sampled pair-wise preferences
78
Done

FIG. 3

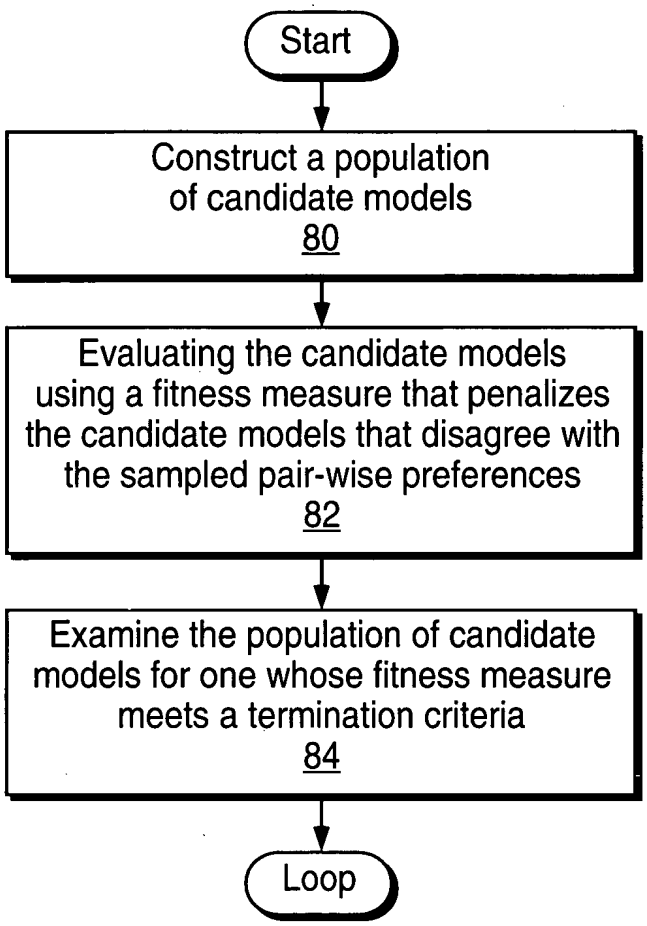
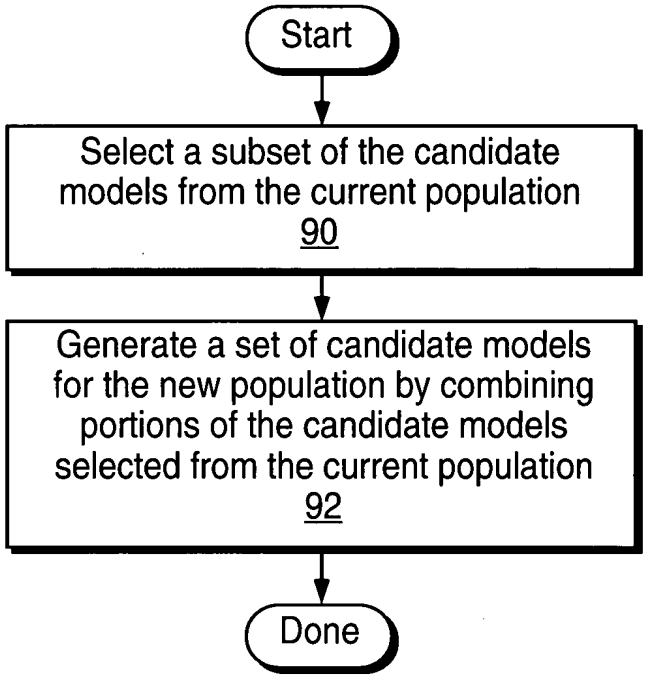

Start
Construct a population of candidate models
80
Evaluating the candidate models using a fitness measure that penalizes the candidate models that disagree with the sampled pair-wise preferences
82
Examine the population of candidate models for one whose fitness measure meets a termination criteria
84
Loop

FIG. 4


Start
Select a subset of the candidate models from the current population
90
Generate a set of candidate models for the new population by combining portions of the candidate models selected from the current population
92
Done

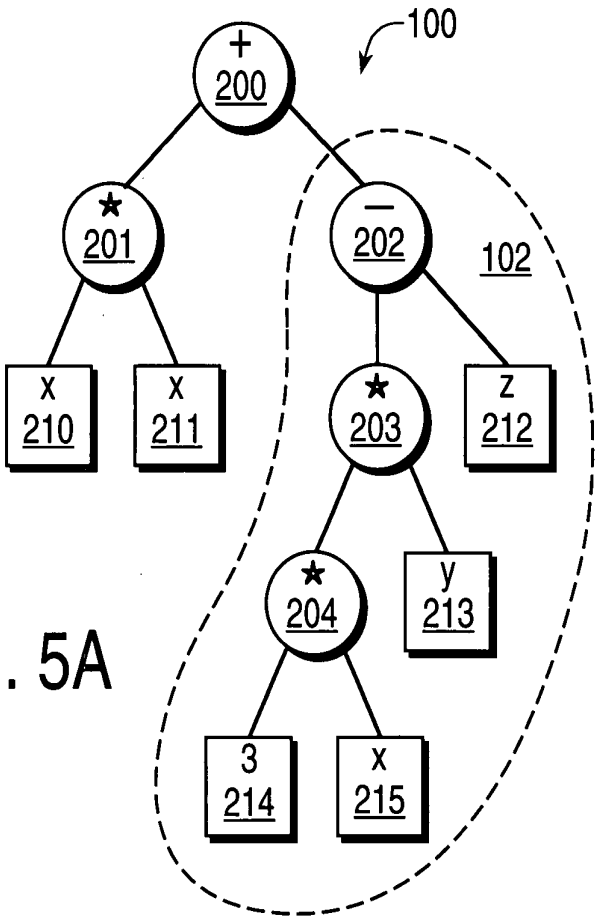
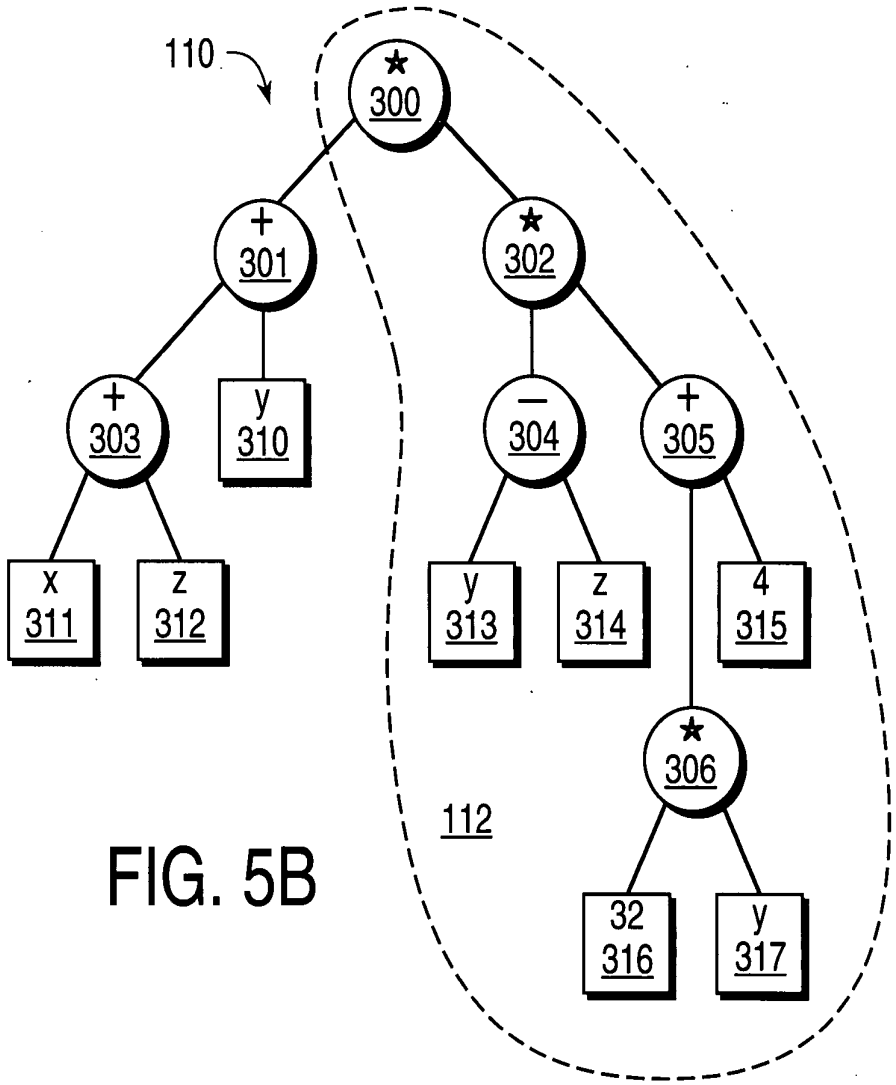

100
+
200
*
201
−
202
102
x
210
x
211
*
203
z
212
*
204
y
213
3
214
x
215

FIG. 5A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*
302
+
303
y
310
−
304
+
305
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y
313
z
314
4
315
*
306
112
32
316
y
317

FIG. 5B

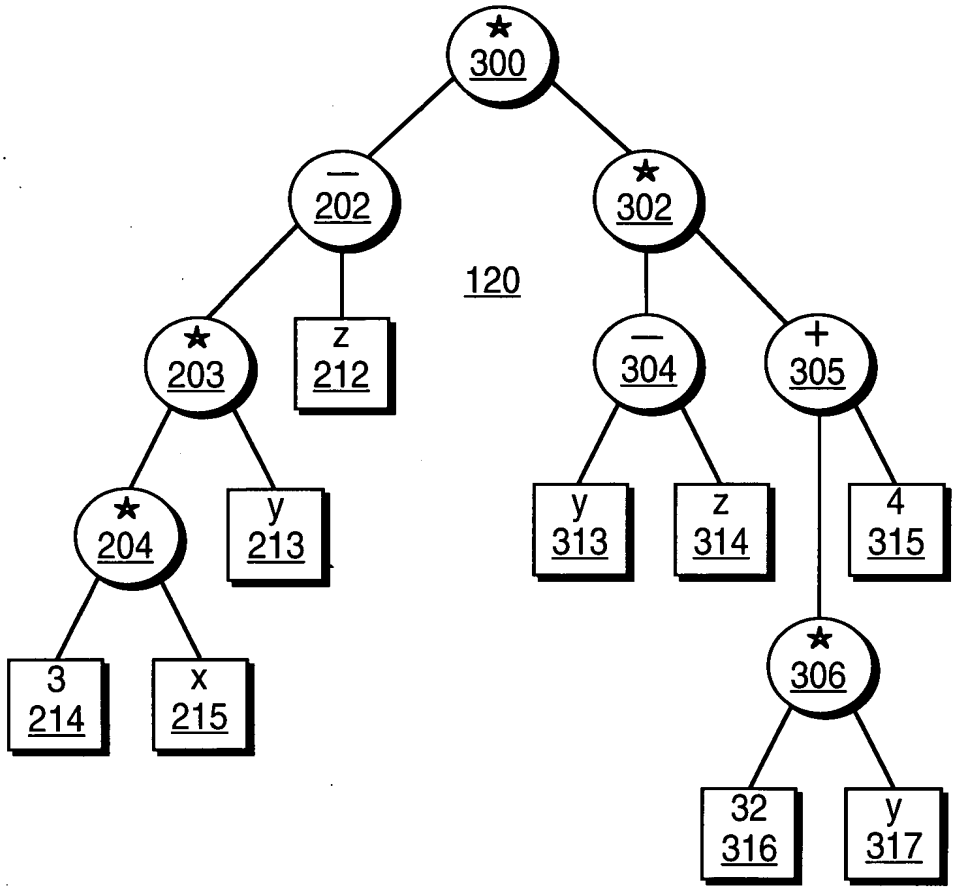
★
300
—
202
★
302
120
★
203
z
212
—
304
+
305
★
204
y
213
y
313
z
314
4
315
3
214
x
215
★
306
32
316
y
317

FIG. 5C